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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/663,764	09/17/2003	Nobuhiro Kira	107355-00087	3831	
7590 11/13/2006			EXAMINER ·		
ARENT FOX KINTNER PLOTKIN & KAHN, PLLC Suite 400			PHAN, H.	PHAN, HAU VAN	
1050 Connecticut Avenue, N.W.			ART UNIT	PAPER NUMBER	
Washington, D	C 20036-5339		3618		

DATE MAILED: 11/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/663,764	KIRA ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Hau V Phan	3618				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 Se	eptember 2006.					
·— ·	action is non-final.					
3) Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-9</u> is/are pending in the application.						
•	4a) Of the above claim(s) <u>7 and 9</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.		•				
6) Claim(s) <u>1-6,8 and 10-13</u> is/are rejected.	6)⊠ Claim(s) <u>1-6,8 and 10-13</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	•					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)⊡ Some * c)⊡ None of:						
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  Other:						

#### **DETAILED ACTION**

## **Acknowledgment**

1. The amendment filed on 9/28/2006 has been entered.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-6, 8, 10-11 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: the phrase "at least one more is selected from the plurality of motors to drive the sub driving wheels" is not sure how, because only a reduction member, which is disposed between a sub motor and a main motor. If only one reduction gear between the sub motor and the main motor, the motor can't be selectable between the sub and the main motors.

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## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-6, 8, 10-11 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Sekiya et al. (6,349,782).

Sekiya et al. in figures 1-2, discloses a hybrid vehicle comprising an engine (E) for driving main driving wheels (48), and a plurality of motors (MI, Mr) for driving sub driving wheels (W), wherein a speed reduction gear (34), which is disposed between a sub motor and a main motor and wherein at least one motor is selected from the plurality of motors to drive the sub driving wheels according to driving force required by the vehicle.

Regarding claim 2, Sekiya discloses the sub driving wheels, which are driven by all the motors at low speed where the driving force required by the vehicle is large.

Regarding claim 3, Sekiya discloses a main motor having a large output and a sub motor having a small output. The sub motor being disposed on an upstream side of the main motor to a direction in which the driving force is transmitted to the sub driving wheels.

Regarding claim 4, Sekiya discloses a clutch for interrupting the transmission of driving force, which is disposed between the sub motor and the main motor.

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Regarding claim 5, Sekiya discloses the plurality of motors and each motor is independently connected to batteries (B). It should be noticed that the motor with higher output should be connected to a high-voltage battery and the motor with lower output should be connected to a lower voltage battery.

Regarding claim 6, Sekiya discloses the plurality of motors having a main motor and a sub motor and wherein a battery for driving the main motor is charged with regenerative power of the main motor and the sub motor is driven by generated output of a generator (54), which is driven by the engine. (During the pull of the heavy load).

Regarding claim 10, Sekiya discloses a motor, which are connected to the sub driving wheels via the speed reduction member.

Regarding claim 11, Sekiya discloses the speed reduction member comprising a first gear operationally connected to the sub motor and a second gar operationally connected to the main motor.

Regarding claim 13, Sekiya discloses the second gear, which is operationally connected to a differential via a synchromesh clutch.

## Response to Arguments

6. Applicant's arguments with respect to claims 1-6, 8, 10-13 have been considered but are most in view of the new ground(s) of rejection.

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#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hau V Phan whose telephone number is 571-272-6696. The examiner can normally be reached on 7:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Ellis can be reached on 571-272-6914. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hau V Phan Primary Examiner Art Unit 3618

Hayhm 11/6/06